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=> FILE REG
FILE 'REGISTRY' ENTERED AT 15:02:35 ON 27 DEC 2007
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES:   26 DEC 2007  HIGHEST RN 959588-76-2
DICTIONARY FILE UPDATES:  26 DEC 2007  HIGHEST RN 959588-76-2

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

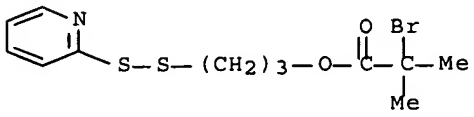
  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> D

L45  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   817208-79-0  REGISTRY
ED   Entered STN:  20 Jan 2005
CN   Propanoic acid, 2-bromo-2-methyl-, 3-(2-pyridinyldithio)propyl ester  (CA
     INDEX NAME)
MF   C12 H16 Br N O2 S2
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT, USPATFULL
```



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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              4 REFERENCES IN FILE CA (1907 TO DATE)
              2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
              4 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> FILE HCAPL
FILE 'HCAPLUS' ENTERED AT 15:02:47 ON 27 DEC 2007
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FILE COVERS 1907 - 27 Dec 2007 VOL 147 ISS 26
FILE LAST UPDATED: 26 Dec 2007 (20071226/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L45
L46 4 L45

=> D L46 BIB ABS IND HITSTR 1-4

L46 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:1192472 HCAPLUS Full-text
DN 144:83457
TI In Situ Preparation of Protein-"Smart" Polymer Conjugates with Retention of Bioactivity
AU Heredia, Karina L.; Bontempo, Debora; Ly, Tiffany; Byers, Joshua T.; Halstenberg, Sven; Maynard, Heather D.
CS Department of Chemistry and Biochemistry and California Nanosystems Institute, University of California Los Angeles, Los Angeles, CA, 90095-1569, USA
SO Journal of the American Chemical Society (2005), 127(48), 16955-16960
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 144:83457
AB Protein-polymer conjugates are widely used in biotechnol. and medicine, and new methods to prepare the bioconjugates would be advantageous for these applications. In this report, the authors demonstrate that bioactive "smart" polymer conjugates can be synthesized by polymerizing from defined initiation sites on proteins, thus preparing the polymer conjugates in situ. In particular, free cysteines, Cys-34 of bovine serum albumin (BSA) and Cys-131 of T4 lysozyme V131C, were modified with initiators for atom transfer radical polymerization (ATRP) either through a reversible disulfide linkage or irreversible bond by reaction with pyridyl disulfide- and maleimide-functionalized initiators, resp. Initiator conjugation was verified by electrospray-ionization mass spectroscopy (ESI-MS), and the location of the modification was confirmed by μLC-MSMS (tandem mass spectrometry) anal. of the trypsin-digested protein macroinitiators. Polymerization of N-isopropylacrylamide (NIPAAm) from the protein macroinitiators resulted in thermosensitive BSA-polyNIPAAm and lysozyme-polyNIPAAm in greater than 65% yield. The resultant conjugates were characterized by gel electrophoresis and size exclusion chromatog. (SEC) and easily purified by preparative SEC. The identity of polymer isolated from the BSA conjugate was confirmed by 1H NMR, and the polydispersity index was determined by gel permeation chromatog. (GPC) to be as low as 1.34. Lytic activities of the lysozyme conjugates were